

What is claimed is:

1. A method for coloring a composition of matter comprising:
preparing a color nanopigment,
wherein the color nanopigment exhibits at least 10% more transparency than
coarse color pigment of substantially same composition with at least 1 micrometer
mean particle size;
wherein the transparency is measured at a wavelength between 300
nanometers and 800 nanometers; and
combining the color nanopigment and the composition of matter.
2. The method of claim 1, wherein the composition of matter comprises
plastic.
3. The method of claim 1, wherein the composition of matter comprises
ceramic.
4. The method of claim 1, wherein the composition of matter comprises
cement.
5. The method of claim 1, wherein the composition of matter comprises
glass.
6. The method of claim 1, wherein the composition of matter comprises
wood.
7. The method of claim 1, wherein the composition of matter comprises
fibers.
8. The method of claim 1, wherein the composition of matter comprises
paint.
9. The method of claim 1, wherein the composition of matter comprises
ink.
10. The method of claim 1, wherein the color nanopigment comprises at
least one oxide.

11. The method of claim 1, wherein the color nanopigment comprises at least one nitride.
12. The method of claim 1, wherein the color nanopigment comprises at least one element with atomic number greater than 21.
13. The method of claim 1, wherein the color nanopigment comprises at least one organic compound.
14. The method of claim 1, further comprising heating the color nanopigment before combining the color nanopigment and the composition of matter.
15. The method of claim 1, wherein the combining comprises coating the composition of matter.
16. The method of claim 1, wherein the combining comprises bonding the color nanopigment and composition of matter.
17. The method of claim 1, wherein the combining comprises impregnating the composition of matter with the color nanopigment.
18. The method of claim 1, wherein the combining comprises mixing the color nanopigment and composition of matter.
19. The method of claim 1, wherein the color nanopigment has an average packing number less than 1000.
20. The method of claim 1, wherein the color nanopigment comprises at least one inorganic compound.